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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the Application of: **VOGEL et al.**

CASE NO: AD6728 US NA

APPLICATION NO.: 09/833,452

GROUP ART UNIT: 1773

FILED: APRIL 12, 2001

EXAMINER: JACKSON, MONIQUE R

**FOR: MULTI-LAYERED, CO-EXTRUDED IONOMERIC DECORATIVE
SURFACING**

AFFIDAVIT UNDER RULE 131

Commissioner for Patents
P.O. Box 1450
Alexandria VA 22313-1450

Sir:

State of Delaware)
) S.S.
County of New Castle)

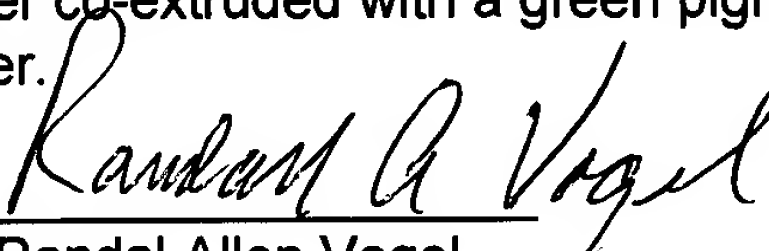
Randall Allen Vogel, being duly sworn, deposes and says:

1. I am an applicant of the patent application identified above and a co-inventor of the subject matter described and claimed therein.
2. Prior to October 13, 1999, I had completed my invention as described and claimed in the subject application in this country, as evidenced by the following:


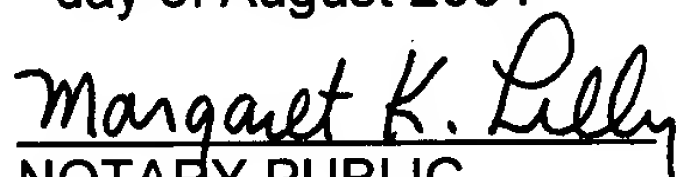
Exhibit A, attached hereto, is a photocopy of the SANO RUN SHEET number 426. The SANO equipment is a co-extruder located at DuPont's Chestnut Run facility in Wilmington, Delaware. The requester of this run is myself ("R. Vogel") and the charge code identifies the DuPont "Surlyn" division within DuPont. The FCL code (991012-4) identifies this particular run as occurring in the year 1999, the tenth month "October" and on the twelfth day. The "4" identifies the run as being the fourth of the day.

This particular run identifies three co-extruded polymer layers consistent with the instant claim language. Layer 1 ("9910 Nat.") is clear natural Surlyn 9910. The second co-extruded layer 2 ("Surlyn 9910 Pewter") is pigmented Surlyn 9910 containing a 6% pewter colored pigment concentrate (see comments to the right side of the run sheet). The third layer 3 ("Bexloy W720") is a Surlyn® and Polyethylene alloy blend commercially sold by DuPont into the automotive industry. The remaining data identifies the operating parameters,

Exhibit B, also attached hereto, is a photocopy of the SANO RUN SHEET describing the production of a two layered co-extruded sheet performed on August 13th of 1999. This two-layered embodiment is consistent with the teaching of the reference of record and also illustrates the concept of a top clear Surlyn® layer co-extruded with a green pigmented Surlyn and polyethylene blend layer.


Randal Allen Vogel

Sworn to and subscribed before me
this 5th day of August 2004

NOTARY PUBLIC

MARGARET K. LILLY

NOTARY PUBLIC

STATE OF DELAWARE

My Commission Expires Apr. 28, 2006

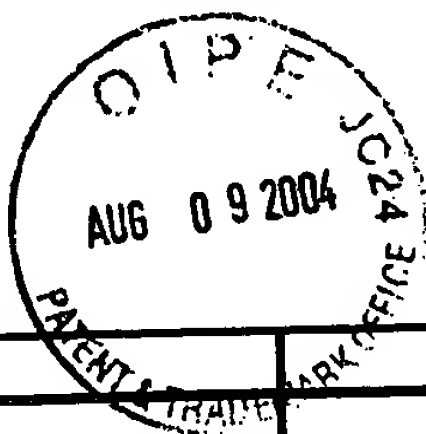


EXHIBIT A

SANO RUN SHEET

No

426

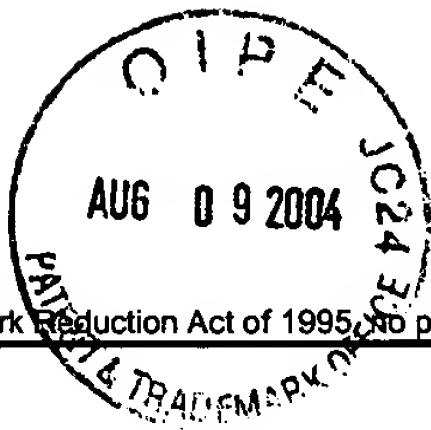
REQUESTER		CHARGE CODE		DATE		PAGE:	
R. VOGEL		SURLYN		FCL 991012-4			
RESINS (TEMP IN °F)							
EXTR.A LAYER 1		EXTR.B LAYER 3		EXTR.C LAYER 2		EXTR.D	
TYPE 9910 Nat.		TYPE Bexloy W220		TYPE Surlyn 9910 Pentan		TYPE	
CODE		CODE		CODE 1010		CODE	
GENERIC		GENERIC		GENERIC		GENERIC	
DENSITY		DENSITY		DENSITY		DENSITY	
MAX. TEMP.		MAX. TEMP.		MAX. TEMP.		MAX. TEMP.	
MIN. TEMP.		MIN. TEMP.		MIN. TEMP.		MIN. TEMP.	
SAFETY CONSIDERATIONS:						COMMENTS	
LINE SPEED - FEET PER MINUTE 10.5						3 LAYER	
						LAYER:	
						1 - 9910 Natural	
						2 - 9910 w/6% Pentan	
						3 - Bexloy 720 Natural	
						DIFFICULT 2w -	
						LAYER thickness hard	
						to obtain. Film had	
						"Eight wing" grain Down	
						left center of sheet	
						Could not 1.2 Cause.	
EXTR. A		EXTR. B		EXTR. C		EXTR. D	
PRESS.		PRESS.		PRESS.		PRESS.	
R.P.M.		R.P.M.		R.P.M.		R.P.M.	
AMPS		AMPS		AMPS		AMPS	
P.P.H.		P.P.H.		P.P.H.		P.P.H.	
MELT °F		MELT °F		MELT °F		MELT °F	
THICK. 5.1		THICK. 6.1		THICK. 19.1		THICK.	
EXTRUDER BARREL °F							
ZONE 1 300		ZONE 1 380		ZONE 1 380		ZONE 1	
ZONE 2 350		ZONE 2 400		ZONE 2 400		ZONE 2	
ZONE 3 375		ZONE 3 450		ZONE 3 450		ZONE 3	
ZONE 4 400		ZONE 4 475		ZONE 4 475		ZONE 4	
ZONE 5 400		ZONE 5 480		ZONE 5 480		ZONE 5	
ZONE 6 400							
EXTRA. HEADS		CLOEREN BLOCK		DIE ° F			
EXTR. A 400		480		LEFT 480			
EXTR. B 480				CENTER 1			
EXTR. C 480				RIGHT			
EXTR. D -							
TRANSFER PIPES							
EXTR. A		EXTR. B		EXTR. C		EXTR. D	
LADP 400		LADP 480		LADP 480		LADP	
LPIPE 1		LPIPE 1		LPIPE 1		LPIPE	
BLADP 1		BLADP 1		CADP 1		CADP	
				UPIPE 1		UPIPE	
				BLADP 1			
CHILL ROLL TEMP.				ROLL STATION			
PRIMARY 80				HORIZONTAL POSITION 2800			
SECONDARY 80				VERTICAL POSITION 25			
PULL ROLL TORQUE				MODE: CAST FILM			
NIP ROLL TORQUE				SHEET			
SLIT WIDTH =				COATING			
				LAMINATION			
				PLUG			
				23CAA			
				GRAVITROL %			
				A B C D			
				MAN			

SANO RUN SHEET

REQUESTER		CHARGE CODE		DATE 8/13/99		PAGE: 378	
R Vogel		Surya		FCL 990813-4			
RESINS (TEMP IN °F)							
EXTRA.A		EXTRA.B		EXTRA.C		EXTRA.D	
TYPE Surya 9910		TYPE Bexloy W30		TYPE Bexloy 720		TYPE	
CODE w/ Power		CODE Michel Green		CODE Michel Green		CODE	
GENERIC		GENERIC		GENERIC		GENERIC	
DENSITY		DENSITY		DENSITY		DENSITY	
MAX. TEMP.		MAX. TEMP.		MAX. TEMP.		MAX. TEMP.	
MIN. TEMP.		MIN. TEMP.		MIN. TEMP.		MIN. TEMP.	
SAFETY CONSIDERATIONS:							
LINE SPEED - FEET PER MINUTE							
EXTRA. A		EXTRA. B		EXTRA. C		EXTRA. D	
PRESS. 970		PRESS. 4703		PRESS. 2215		PRESS.	
R.P.M. 50		R.P.M. 90		R.P.M. 65		R.P.M.	
AMPS 4		AMPS 20		AMPS 6		AMPS	
P.P.H.		P.P.H.		P.P.H.		P.P.H.	
MELT °F 454		MELT °F 537		MELT °F 528		MELT °F	
THICK. 6.4		THICK.		THICK. 33.75		THICK.	
EXTRUDER BARREL °F							
ZONE 1 300		ZONE 1 400		ZONE 1 400		ZONE 1	
ZONE 2 325		ZONE 2 450		ZONE 2 450		ZONE 2	
ZONE 3 375		ZONE 3 475		ZONE 3 475		ZONE 3	
ZONE 4 385		ZONE 4 500		ZONE 4 500		ZONE 4	
ZONE 5 410		ZONE 5 510		ZONE 5 510		ZONE 5	
ZONE 6 425							
EXTRA. HEADS				CLOEREN BLOCK		DIE °F	
EXTRA. A 425		510		LEFT 510			
EXTRA. B 510				CENTER 500			
EXTRA. C 510				RIGHT 510			
EXTRA. D							
TRANSFER PIPES							
EXTRA. A		EXTRA. B		EXTRA. C		EXTRA. D	
LADP 425		LADP 510		LADP 510		LADP	
LPIPE		LPIPE		LPIPE		LPIPE	
BLADP		BLADP		CADP		CADP	
				UPIPE		UPIPE	
				BLADP			
ROLL STATION							
CHILL ROLL TEMP.				HORIZONTAL POSITION 2900			
PRIMARY 70				VERTICAL POSITION 15			
SECONDARY 70				MODE:			
PULL ROLL TORQUE				CAST FILM			
NIP ROLL TORQUE				SHEET			
SLIT WIDTH =				COATING			
				LAMINATION			
PLUG							
BBCAA							
GRAVITROL %							
A		B		C		D	
45		45		35		0	

Surya 9910 with
Irganox 1076
Tinuvin 328
Chimassorb 119
50 lbs / 23g
Surya / Extr Power

EXTRA A: Low Amps
Low Pressure, Could
not Build 'A' Layer to
10 mil.



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Jeanette Hancock

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09/833452

AD6728USNA

Response (8 pages)

Affidavit Under Rule 131 (2 pages)

Exhibit A

Exhibit B

Postcard

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